

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P834492

Luminaire Tested: **ORLG-12-4-INS-OPL-LD4-2HI-40-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834492
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-OPL-LD4-2HI-40-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

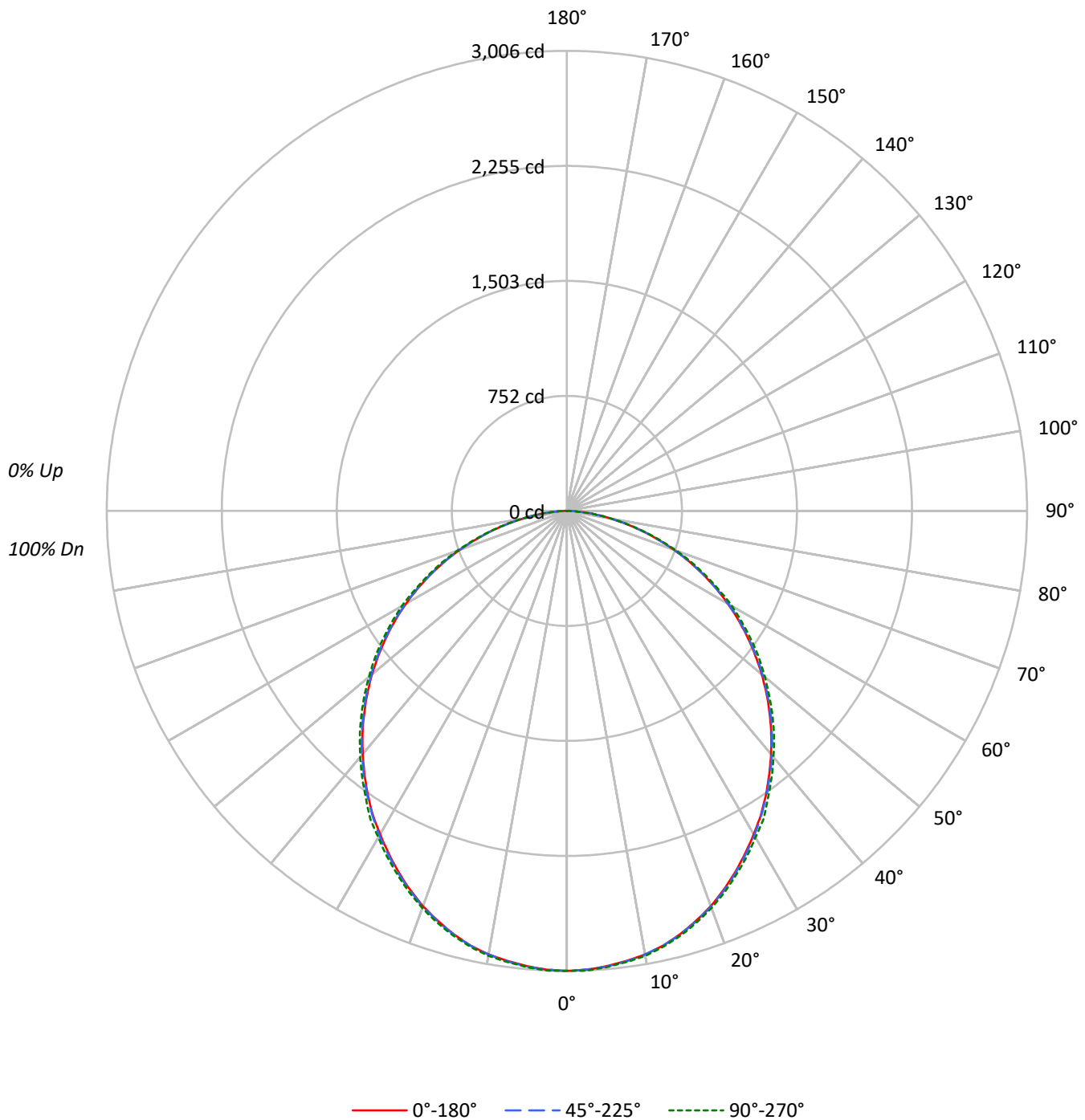
Lumens per Lamp: N/A
Luminaire Lumens: 8120.9 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

TEST NUMBER: P834492

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-2HI-40-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834492

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-2HI-40-120-EDD-90

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8087	8087	8087
5°	8066	8073	8083
10°	8041	8042	8066
15°	7974	7979	8002
20°	7871	7879	7908
25°	7728	7747	7782
30°	7583	7608	7654
35°	7445	7463	7522
40°	7287	7312	7377
45°	7128	7158	7232
50°	6955	6986	7067
55°	6758	6790	6901
60°	6534	6561	6708
65°	6248	6268	6387
70°	5865	5870	5997
75°	5331	5312	5435
80°	4581	4561	4638
85°	3554	3495	3517

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834492

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-2HI-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	3.5
10°-20°	807.9	9.9
20°-30°	1202.6	14.8
30°-40°	1422.2	17.5
40°-50°	1451.9	17.9
50°-60°	1295.7	16.0
60°-70°	976.0	12.0
70°-80°	544.3	6.7
80°-90°	136.4	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2294.5	28.3
0°-40°	3716.7	45.8
0°-60°	6464.4	79.6
0°-90°	8120.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8120.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3005	3005	3005	3005	3005	
5°	2986	2992	2989	2989	2992	284
15°	2862	2865	2864	2867	2872	807
25°	2603	2606	2609	2616	2621	1199
35°	2266	2264	2272	2280	2290	1417
45°	1873	1872	1881	1890	1900	1445
55°	1440	1439	1447	1457	1471	1288
65°	981	978	984	993	1003	971
75°	513	508	511	513	523	544
85°	115	112	113	112	114	138
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834492

CATALOG NUMBER: ORLG-12-4-INS-OPL-LD4-2HI-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3005.4	3005.4	3005.4	3005.4	3005.4
2.5°	3000.4	3005.4	2999.2	3000.4	3006.0
5°	2986.1	2991.7	2988.6	2989.2	2992.3
7.5°	2966.2	2973.7	2969.3	2970.6	2973.7
10°	2942.6	2948.2	2943.2	2946.3	2951.9
12.5°	2909.0	2911.5	2909.0	2910.2	2916.4
15°	2862.3	2865.4	2864.2	2866.7	2872.3
17.5°	2807.5	2811.3	2810.7	2815.6	2820.0
20°	2748.4	2749.0	2751.5	2756.5	2761.5
22.5°	2678.7	2680.6	2683.1	2689.9	2694.9
25°	2602.8	2605.9	2609.0	2615.9	2620.9
27.5°	2522.6	2525.7	2530.0	2537.5	2545.6
30°	2440.4	2440.4	2448.5	2456.0	2463.4
32.5°	2357.7	2354.5	2362.0	2371.3	2389.4
35°	2266.2	2263.7	2271.8	2280.5	2289.8
37.5°	2171.0	2169.1	2178.5	2187.8	2196.5
40°	2074.5	2072.1	2081.4	2090.7	2100.1
42.5°	1975.6	1974.4	1983.1	1992.4	2002.4
45°	1872.9	1872.3	1881.0	1890.4	1900.3
47.5°	1768.4	1767.2	1775.9	1785.8	1794.5
50°	1661.4	1660.1	1668.8	1678.8	1688.1
52.5°	1551.2	1551.2	1559.3	1568.0	1582.4
55°	1440.5	1438.6	1447.3	1457.3	1471.0
57.5°	1328.5	1326.0	1334.1	1344.0	1356.5
60°	1214.0	1211.5	1219.0	1228.9	1246.3
62.5°	1098.3	1094.5	1102.0	1111.3	1121.9
65°	981.3	977.5	984.4	993.1	1003.0
67.5°	863.7	859.3	866.2	873.6	883.0
70°	745.4	741.1	746.1	753.5	762.2
72.5°	627.8	623.5	627.8	630.9	641.5
75°	512.7	508.4	510.9	513.3	522.7
77.5°	400.7	396.4	401.3	402.6	408.2
80°	295.6	291.2	294.3	294.9	299.3
82.5°	199.7	196.0	200.4	197.2	201.0
85°	115.1	112.0	113.2	112.0	113.9
87.5°	45.4	42.9	43.6	41.1	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)